



# Sony Vaio PCG-7184L (VGN-NW240F)

## Keyboard Replacement

This guide will go over how to replace the keyboard.

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## INTRODUCTION

The keyboard should be replaced if it is missing keys or non-functional.

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### TOOLS:

- [Spudger](#) (1)
  - [Phillips #1 Screwdriver](#) (1)
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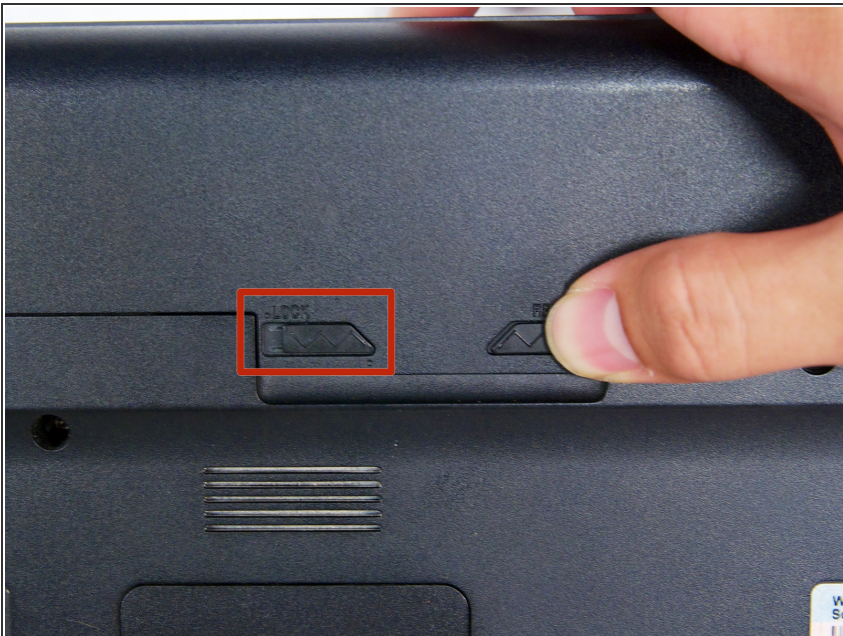


## Step 1 — Battery



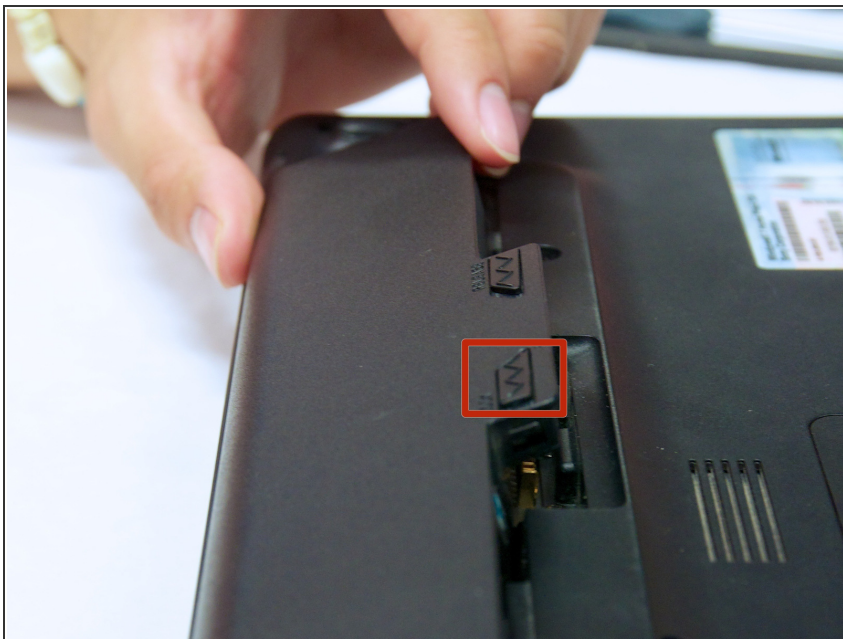
- Power off the laptop.
- Unplug the charging cable and any other cables plugged into the laptop.
- ⚠ Failure to remove or unplug any cables could result in electric shock.
- Turn the laptop over so that the back panel is facing upwards.

## Step 2



- Locate two switches above the battery that lock it into place.
- Push the left-hand switch, that says "lock" above it, so that it is unlocked.

### Step 3



- Push and hold the right-hand switch, which says "release" above it, and lift the battery up out of its place.

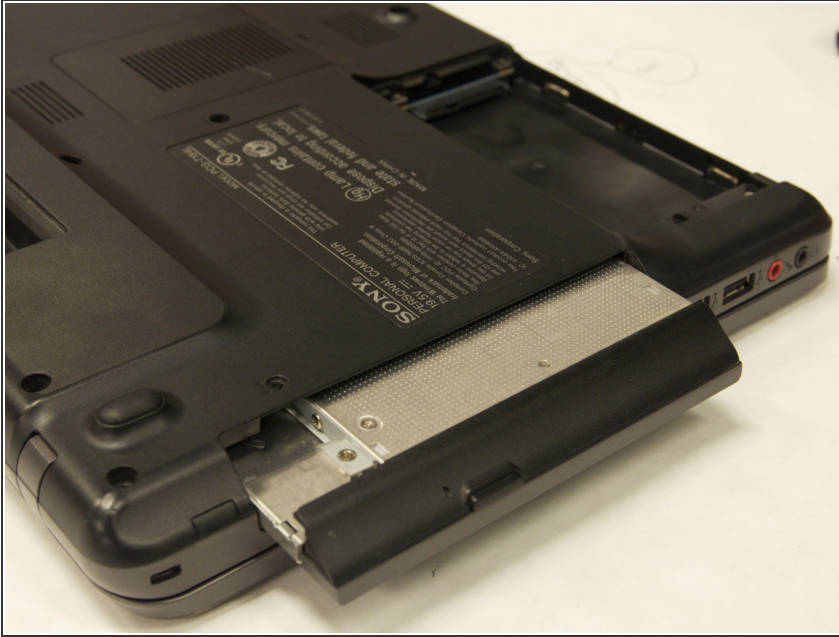
### Step 4 — Optical Drive



- Locate and unscrew the two highlighted 8 mm Phillips #1 screws.
- ⓘ There will be three dots next to the desired screws



## Step 5



- Grip the cover of the optical drive and slide it out.

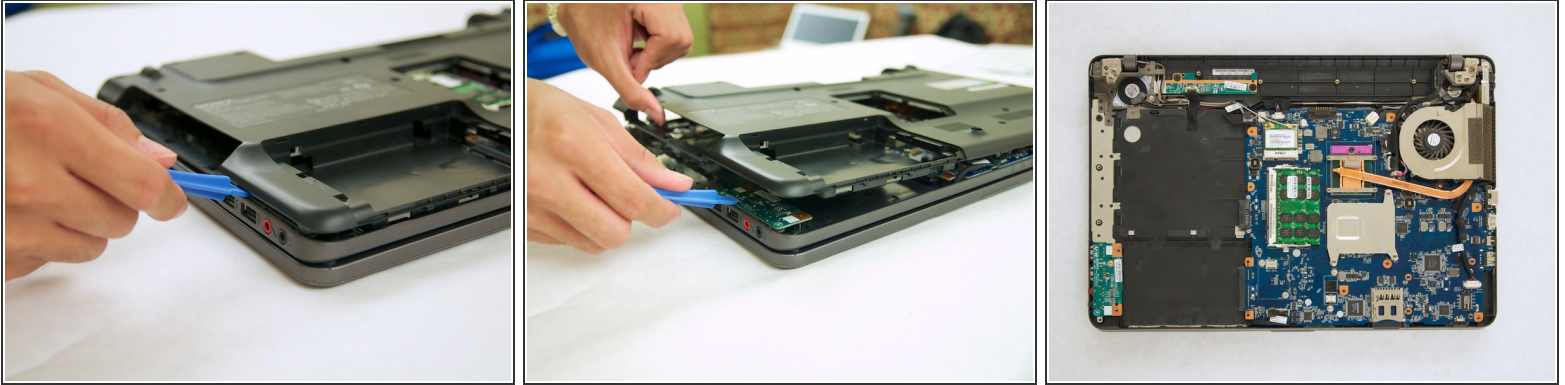
⚠ If it does not come out, do not force it. Double check to make sure the screws are entirely removed.

## Step 6 — Back Panel




- Remove all the 8mm Phillips #1 screws on the backside of the laptop.
- There are three 3mm and two 5.3mm screws under the battery that also need to be taken out.
- There are three 3mm screws under the optical drives that also need to be taken out.
- Remove the RAM panel in addition to the other screws. For further instructions, refer to the [RAM replacement guide](#).

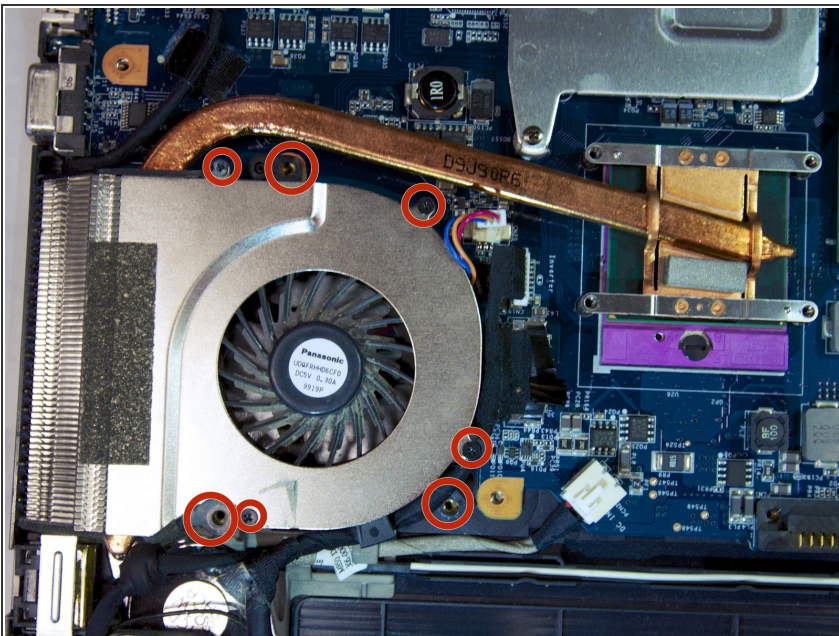
## Step 7



- Pry along the edges of the back panel using the spudger.

 If you are struggling to remove the back panel with a moderate amount of force, do NOT apply any additional force, instead double check to make sure all the screws were removed before attempting again.

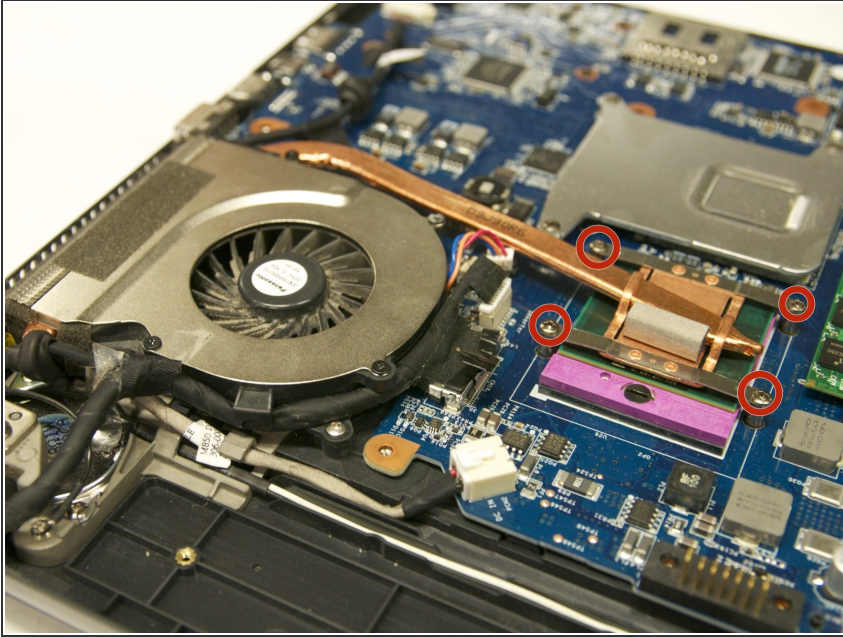
## Step 8 — Fan



- Locate and remove three 5.3 mm Phillips #1 screws on the bottom of the fan.
- Locate and remove the four 5.3 mm Phillips #1 screws on the top of the fan.

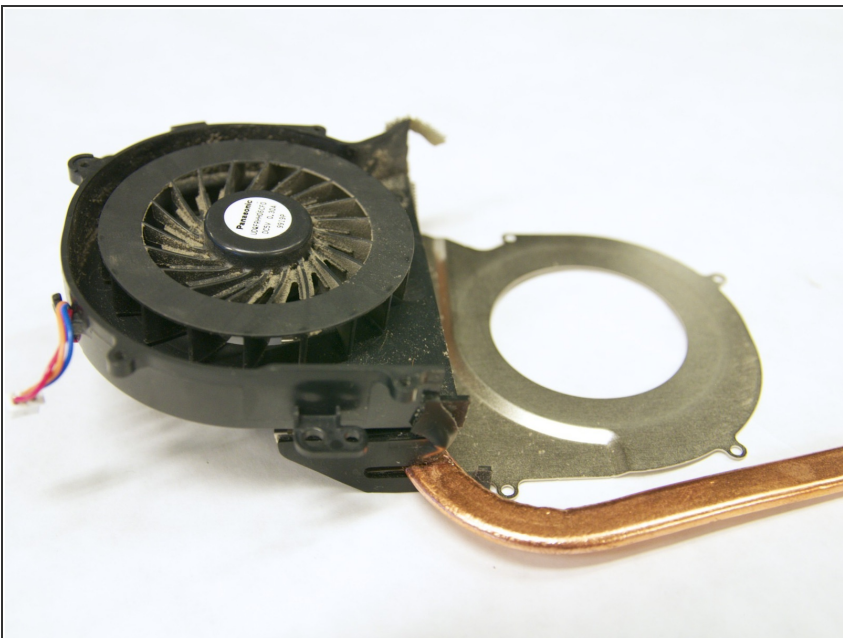


## Step 9



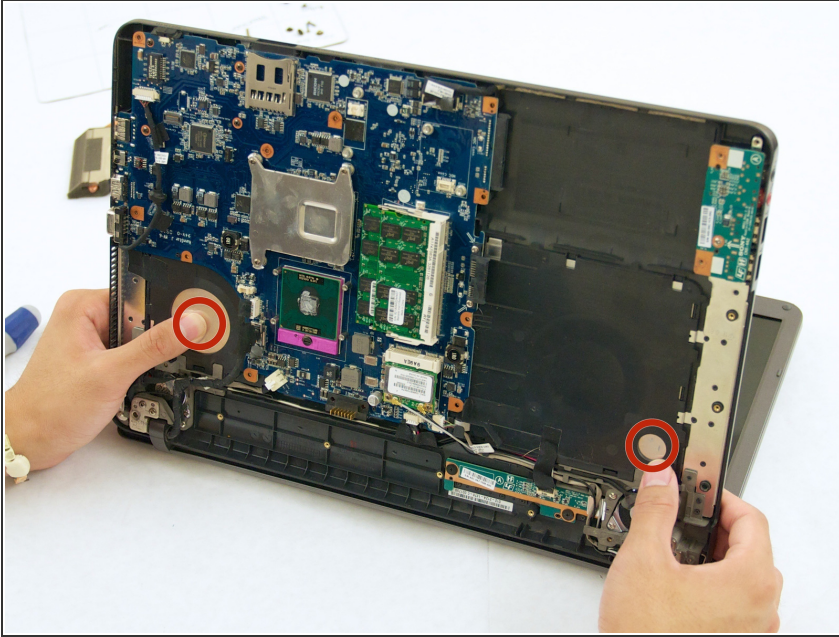
- Locate and remove the four 3mm Phillips #1 screws above the processor and attached to the bronze heat-pipes.
  - Gently lift up the fan and heatsink from the the laptop.
- ⚠ If the fan and heatsink will not lift up with ease, do NOT apply any additional force. Check again to see if all necessary screws are removed.

## Step 10



- The fan attached onto the heat sink with electrical tape. Removing the electrical tape allows you to replace the fan.

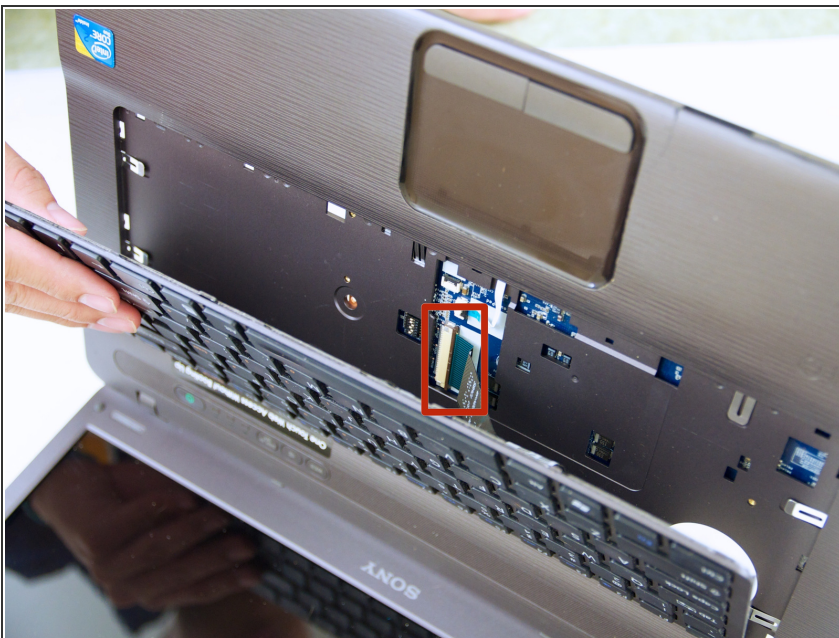
## Step 11 — Keyboard



- Locate the two highlighted circular openings and push the keyboard out.

⚠ There is a ribbon cable attaching the keyboard to the back of the motherboard. Avoid damaging the ribbon when pushing out the keyboard.

## Step 12



- Detach the ribbon cable to separate the keyboard from the laptop.
- Push open the brown clamp at the base of the ribbon to release it.

To reassemble your device, follow these instructions in reverse order.

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